



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,162	08/28/2004	Vladimir Khripach		5161
<div>Mikhail Samusevich Drebsk CompTech, Inc. 7201 19 Ave 2 Floor Brooklyn, NY 11204</div>				
			EXAMINER	
			GUPTA, ANISH	
			ART UNIT	PAPER NUMBER
			1654	
			MAIL DATE	DELIVERY MODE
			05/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Art Unit: 1654

DETAILED ACTION

1. Applicants amendment filed 7-24-06 is acknowledged. Applicants canceled claims 1-10 and added claims 11-13. Claims 11-13 are pending.
2. All rejections made in the previous office action and not cited herein are hereby withdrawn.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claim 12-13 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention for the reasons set forth in the previous office action and the reasons set forth below.

The claims have been amended to recite pharmaceutical formulations of 24-epibrassinolide. . Pharmaceutical formulations imply in-vivo use and medical treatment of disease or disorders. The disorder/disease outlined in the specification is limited to HIV treatment. The treatment of HIV has not been enabled by the instant disclosure.

As stated in the previous office action, it is well known in the art that retroviral infections in general, and HIV infections in particular, are refractory to anti-viral therapies. The obstacles to therapy of HIV are well documented in the literature. These obstacles include: 1) the extensive genomic diversity and mutation rate associated with the HIV retrovirus, particularly with respect to the gene encoding the envelope protein; 2) the fact that the modes of viral transmission include both

Art Unit: 1654

virus-infected mononuclear cells, which pass the infecting virus to other cells in a covert manner, as well as via free virus transmission; 3) the existence of a latent form of the virus; 4) the ability of the virus to evade immune responses in the central nervous system due to the blood-brain barrier; and 5) the complexity and variation of the pathology of HIV infection in different individuals. The existence of these obstacles establish that the contemporary knowledge in the art would not allow one skilled in the art to use the claimed invention with a reasonable expectation of success and without undue experimentation. Applicants have not provided any convincing evidence that their immunoconjugate is indeed useful for an anti-HIV treatment or for a binding assay and have not provided sufficient guidance to allow one skilled in the art to practice the claimed invention with a reasonable expectation of success and without undue experimentation. In the absence of such guidance and evidence, the specification fails to provide an enabling disclosure. Moreover, Applicants' own data shows that EBI, even in a cell line does not eradicate HIV infected cells, the language states that it has an ability to protect against but no statistical data is provided about living vs. dead cells. The only quote we have is that "[t]hose probes were estimated as positive ones, where the amount of the living cells was 75% higher than in EBI-untreated virus control, which implies that there were living cells in the EBI treated assays. The examiner notes that cell line tests can lead one to potential candidates for further testing but cell lines in and of themselves are still just a step in a chain to provide an enabling disclosure. Thus, HIV and AIDS would remain a problem as it would continue to replicate and mutate in vivo and as we have no data on an in vivo system, there is no way to correlate whether this would ever work or at what dosage would be required.

Thus, the rejection is maintained.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

Art Unit: 1654

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 11-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims recite “[a]n in vitro Human Immunodeficiency Virus (HIV) infection inhibiting compound comprising 24-epibrassinolide, a plant hormone, belonging to brassinosteroid series.” The phrase belonging to the brassinosteroid series is indefinite since it is unclear if the compound encompassed by the claim is only 24-epibrassinolide or another compound within the brassinosteroid series.

New Grounds For Rejections

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Kajita et al. (EP220514).

The claims are drawn to 24-epibrassinolide.

The reference teaches Composition suitable for increasing the quantity of fruits or flowers of plants in horticulture and agriculture comprises (a) at least one 24-epibrassinolide, and (b) at least one non-toxic salt of choline (see abstract). The reference disclose the compound 24-epibrassinolide and therefore meets the limitation of the claims. Although the reference does not

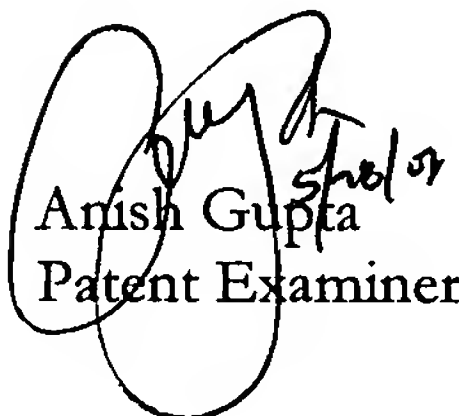
Art Unit: 1654

disclose that it is a "in vitro Human Immunodeficiency Virus (HIV) infection inhibiting," such would be inherent in the compound since the compound disclose in the prior art is identical to the claimed invention.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anish Gupta whose telephone number is (571)272-0965. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang, can normally be reached on (571) 272-0562. The fax phone number of this group is (571)-273-8300.


Anish Gupta
Patent Examiner